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FIG. 1

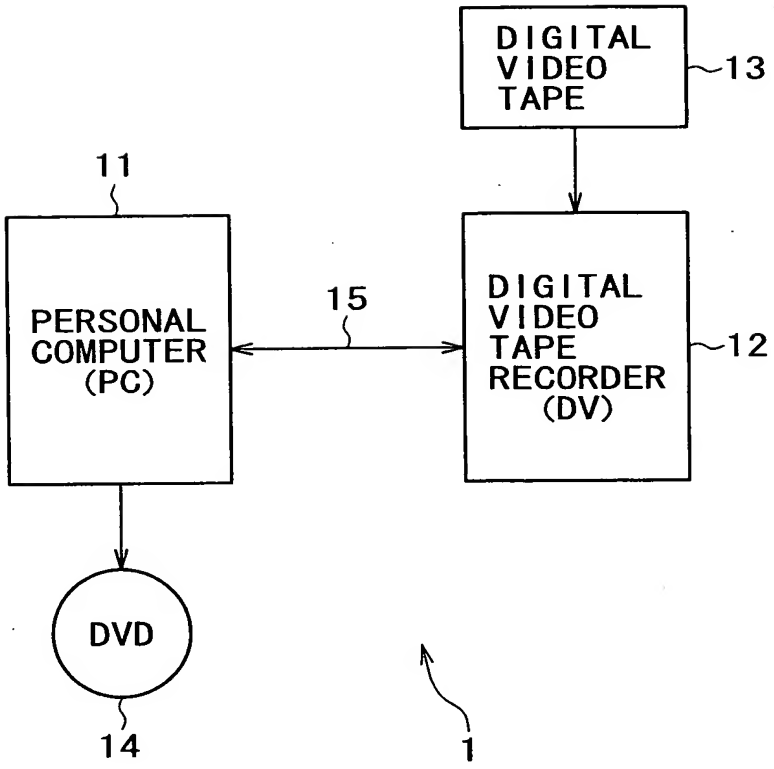

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FIG. 2

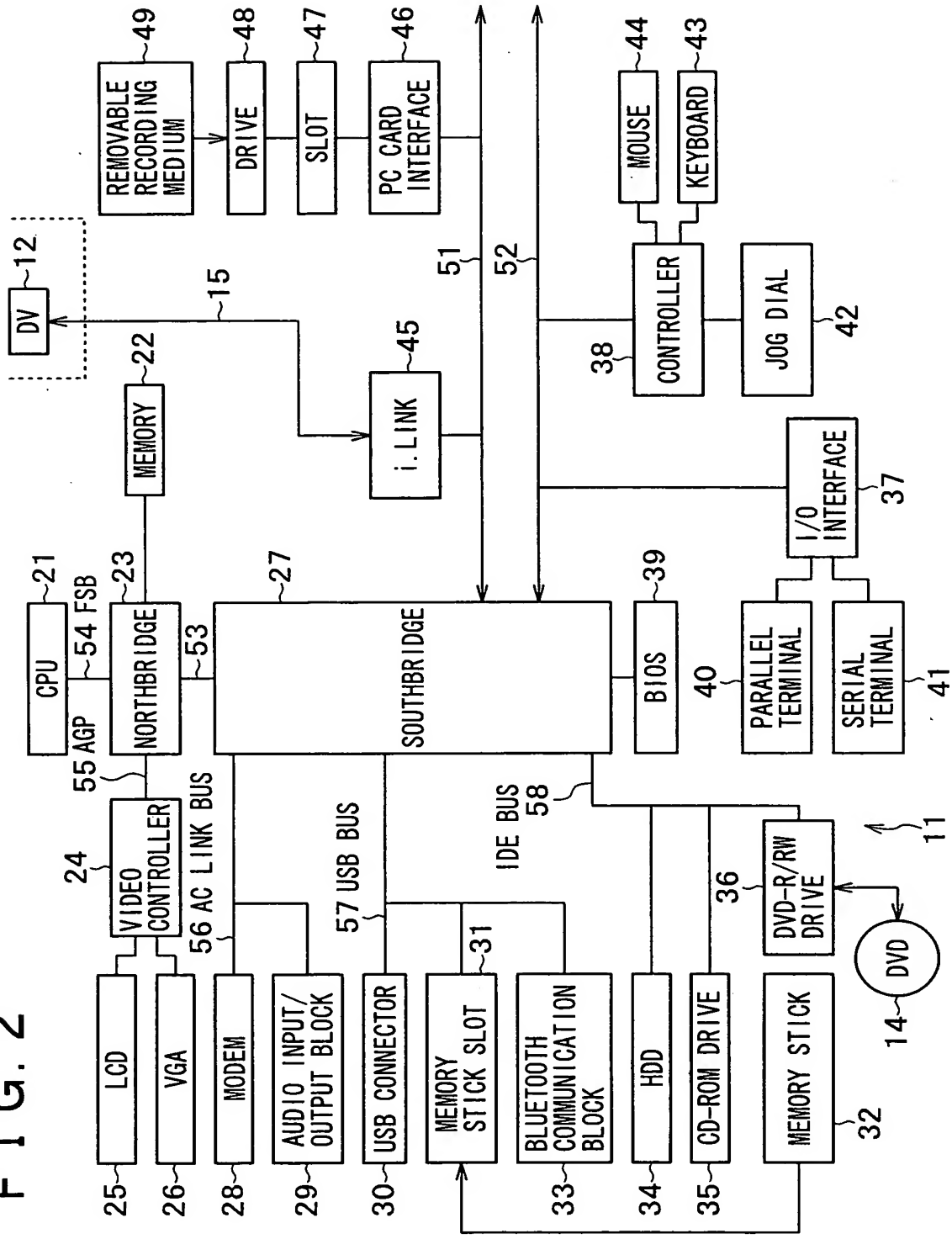

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FIG. 3

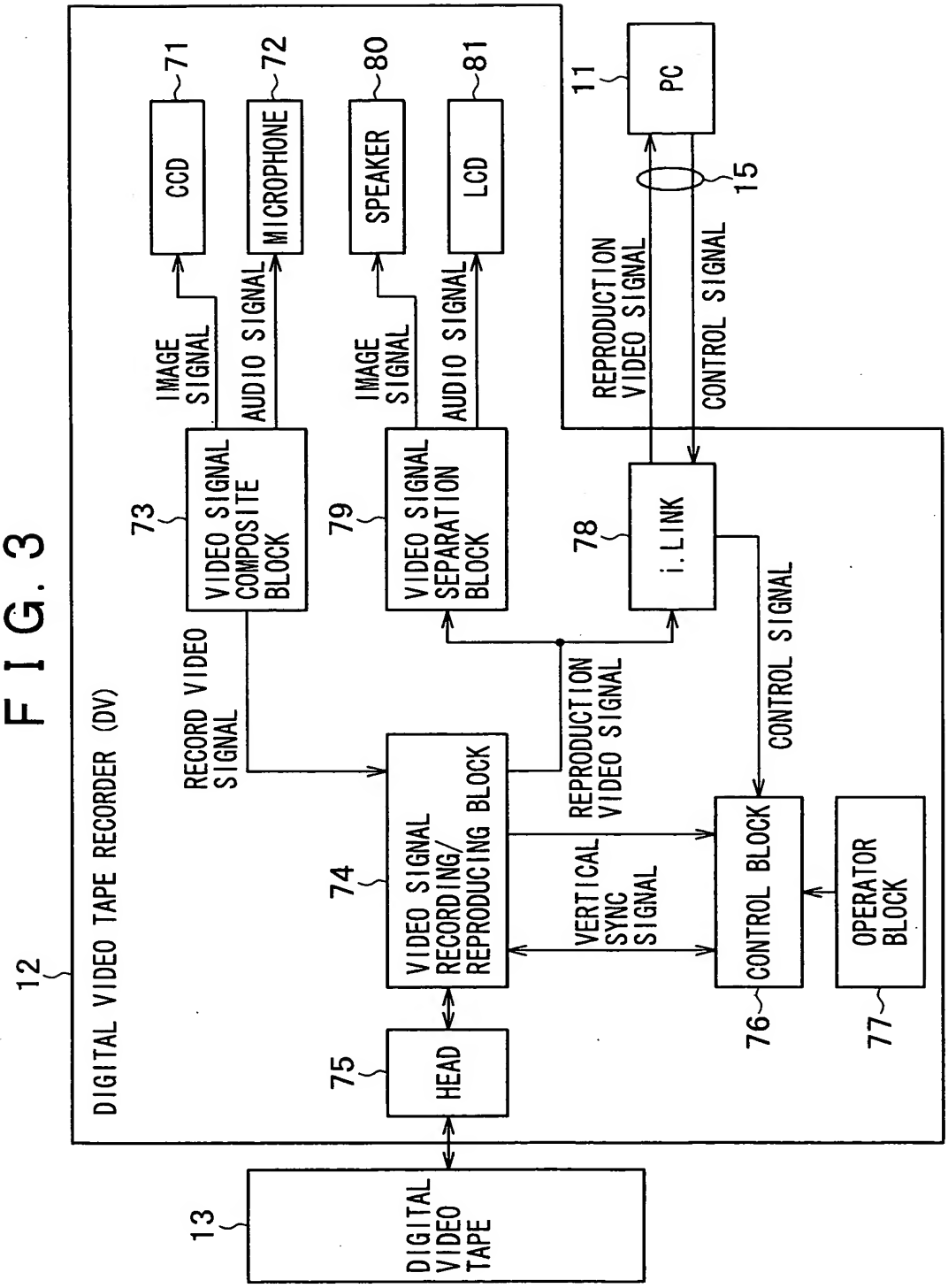

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FIG. 4

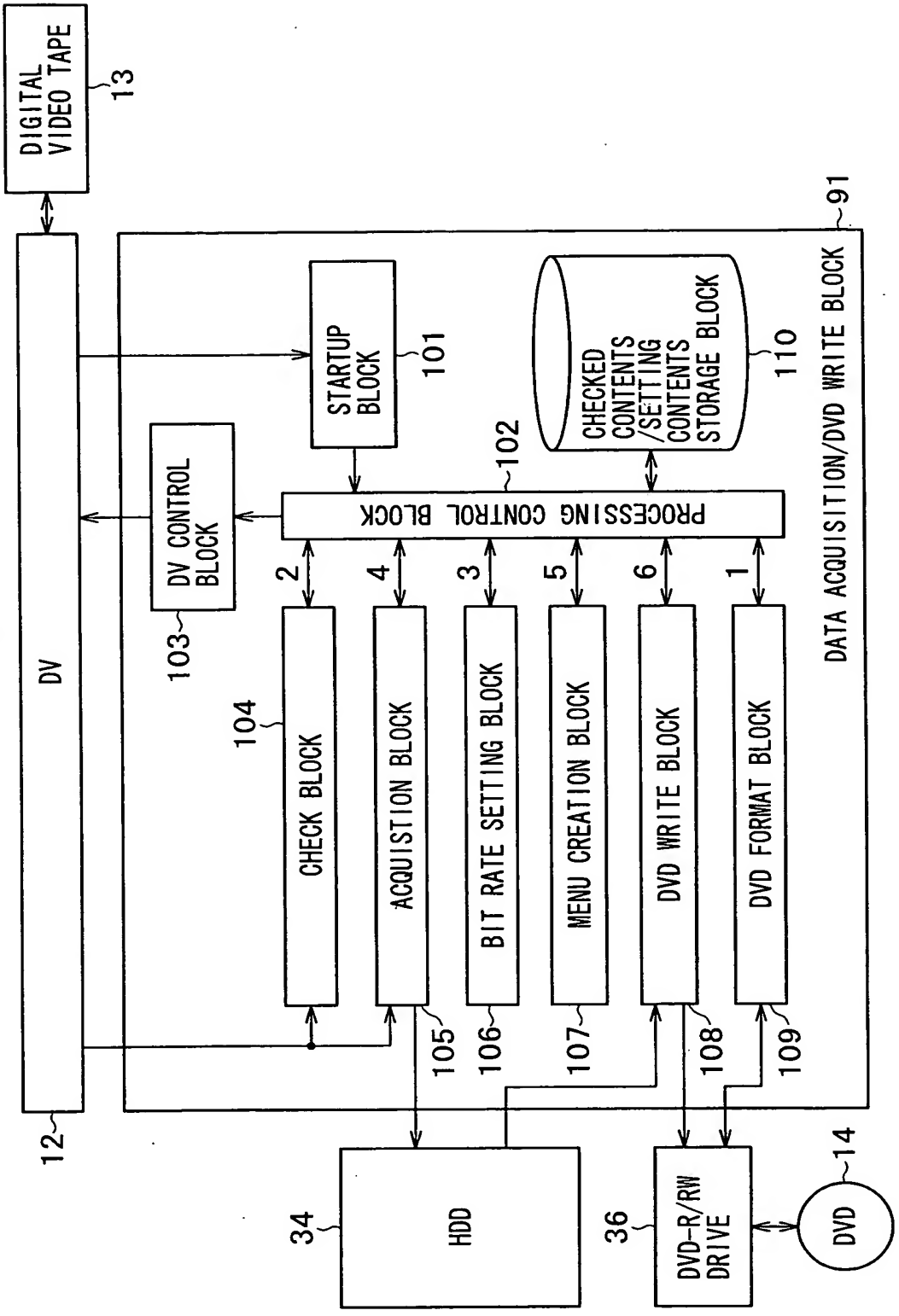

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FIG. 5

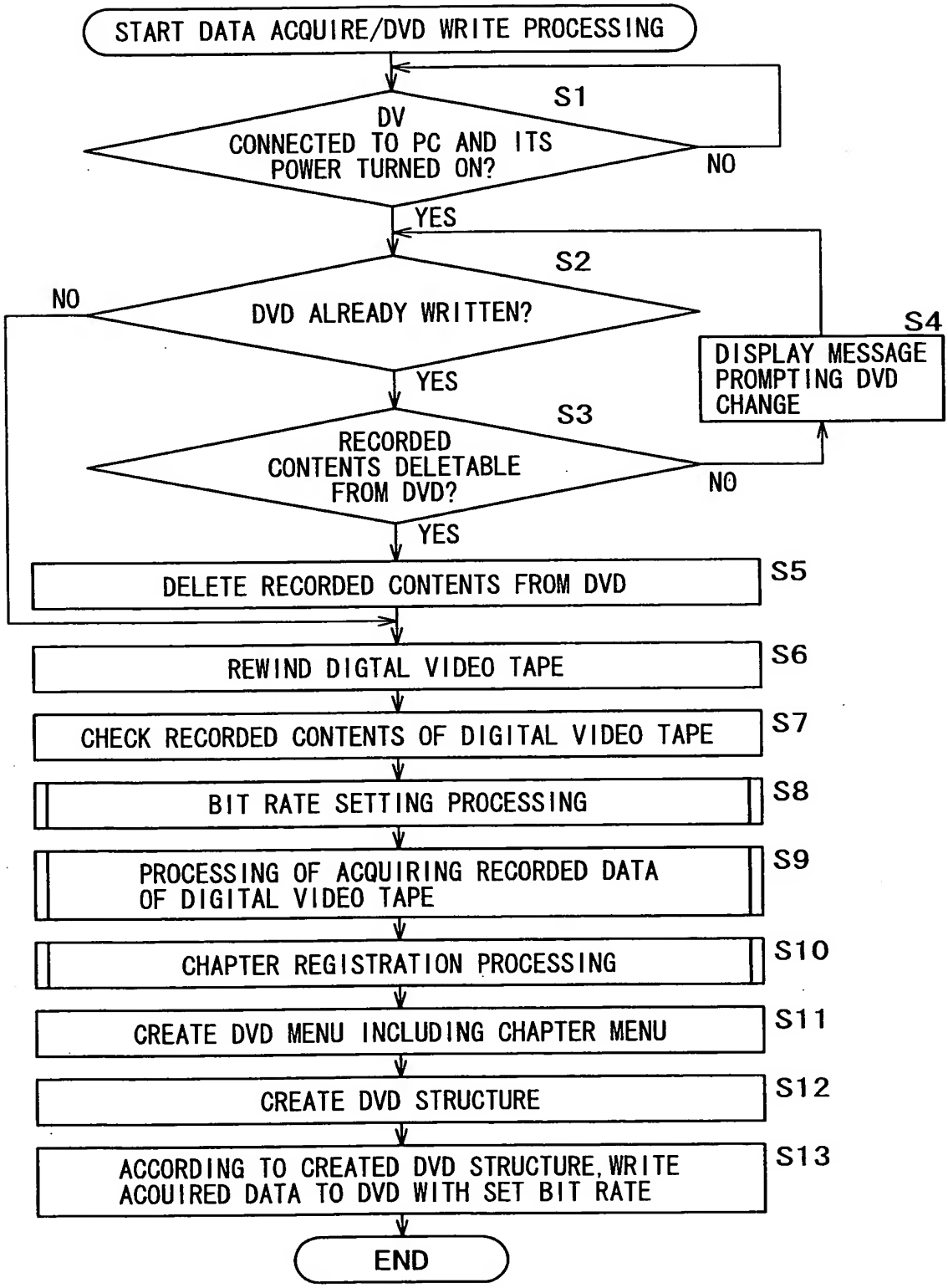

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FIG. 6

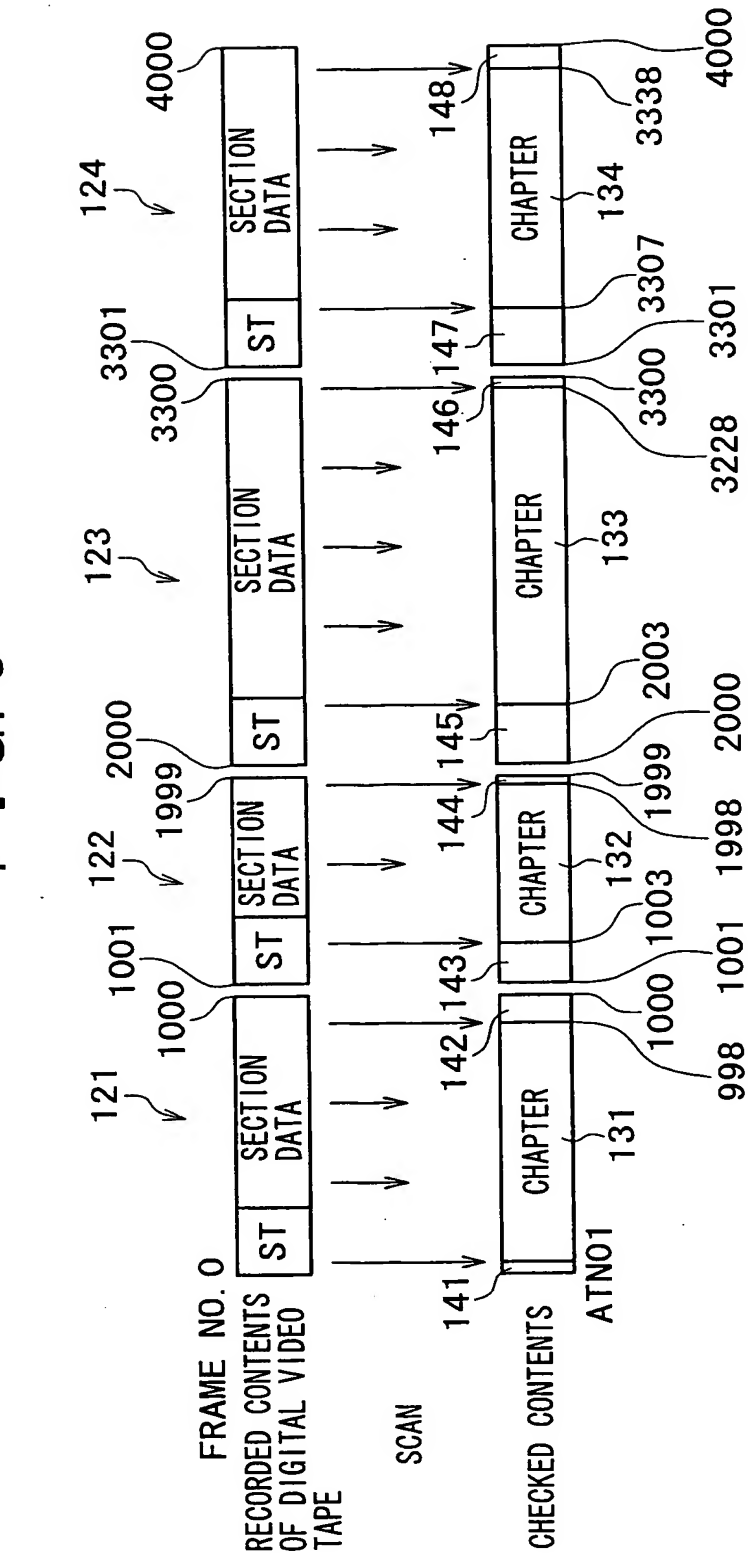

FIG. 7

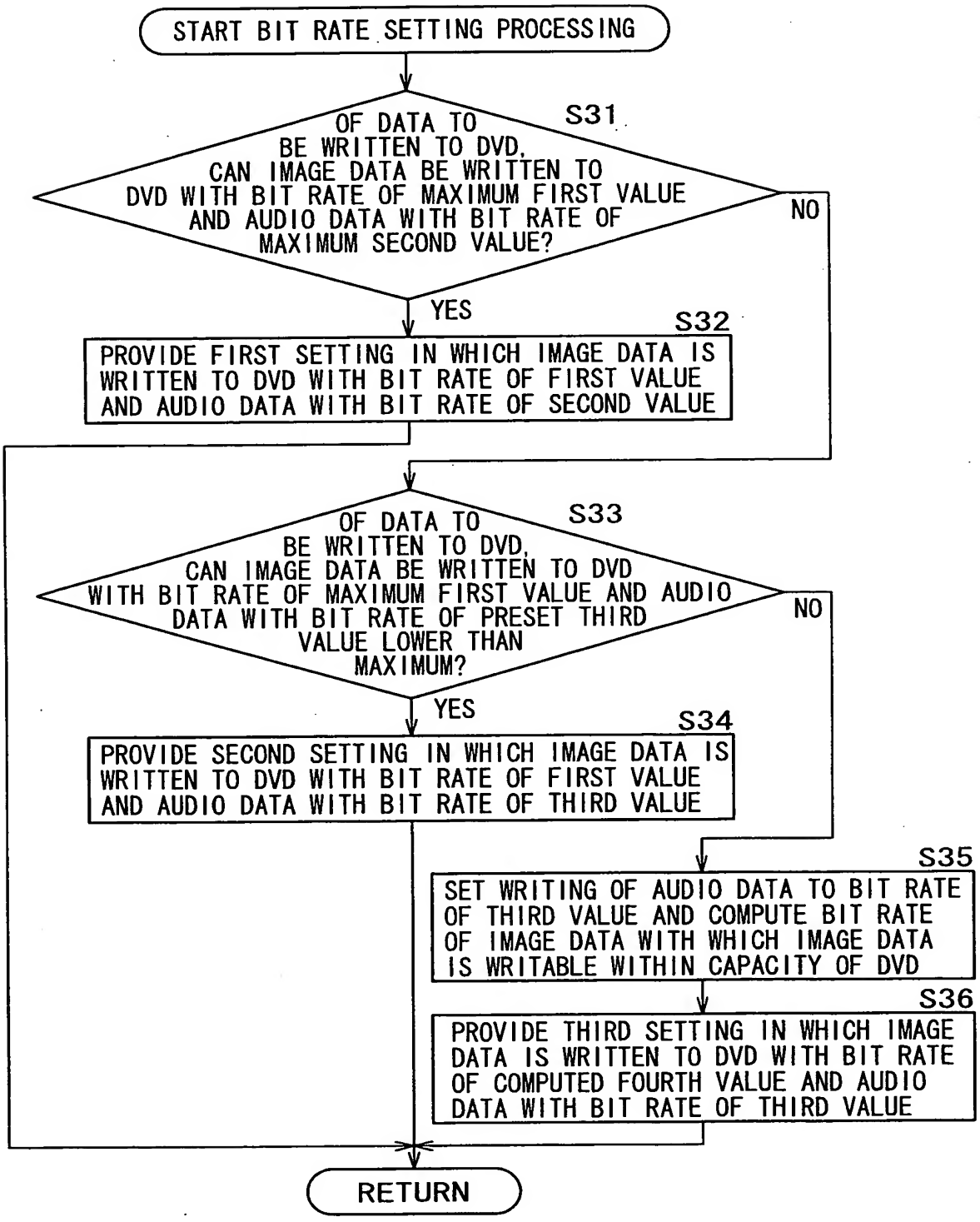
START BIT RATE SETTING PROCESSING
S31
OF DATA TO BE WRITTEN TO DVD, CAN IMAGE DATA BE WRITTEN TO DVD WITH BIT RATE OF MAXIMUM FIRST VALUE AND AUDIO DATA WITH BIT RATE OF MAXIMUM SECOND VALUE?
NO
YES
S32
PROVIDE FIRST SETTING IN WHICH IMAGE DATA IS WRITTEN TO DVD WITH BIT RATE OF FIRST VALUE AND AUDIO DATA WITH BIT RATE OF SECOND VALUE
S33
OF DATA TO BE WRITTEN TO DVD, CAN IMAGE DATA BE WRITTEN TO DVD WITH BIT RATE OF MAXIMUM FIRST VALUE AND AUDIO DATA WITH BIT RATE OF PRESET THIRD VALUE LOWER THAN MAXIMUM?
NO
YES
S34
PROVIDE SECOND SETTING IN WHICH IMAGE DATA IS WRITTEN TO DVD WITH BIT RATE OF FIRST VALUE AND AUDIO DATA WITH BIT RATE OF THIRD VALUE
S35
SET WRITING OF AUDIO DATA TO BIT RATE OF THIRD VALUE AND COMPUTE BIT RATE OF IMAGE DATA WITH WHICH IMAGE DATA IS WRITABLE WITHIN CAPACITY OF DVD
S36
PROVIDE THIRD SETTING IN WHICH IMAGE DATA IS WRITTEN TO DVD WITH BIT RATE OF COMPUTED FOURTH VALUE AND AUDIO DATA WITH BIT RATE OF THIRD VALUE
RETURN

FIG. 8

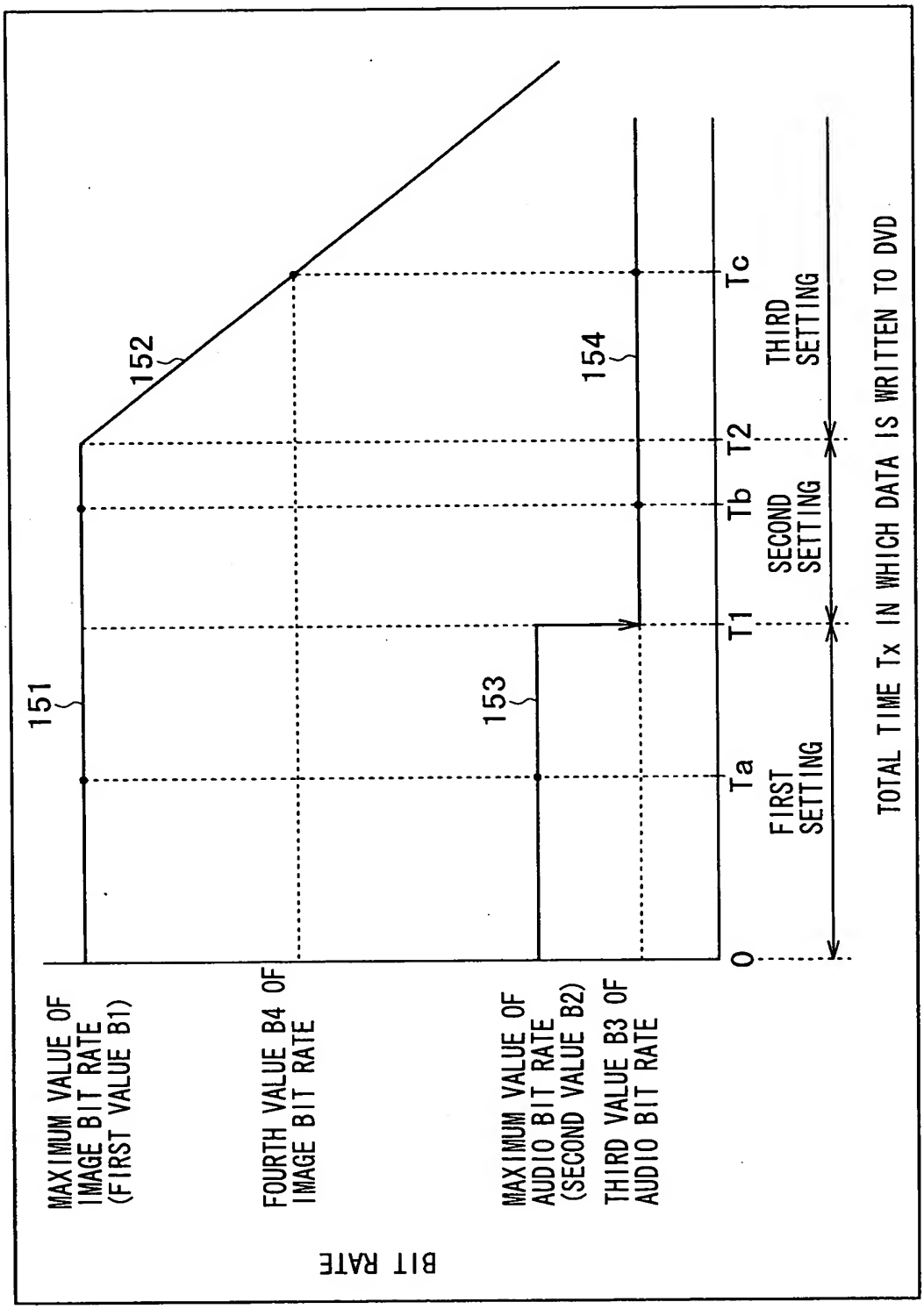
BIT RATE
MAXIMUM VALUE OF IMAGE BIT RATE (FIRST VALUE B1)
FOURTH VALUE B4 OF IMAGE BIT RATE
MAXIMUM VALUE OF AUDIO BIT RATE (SECOND VALUE B2)
THIRD VALUE B3 OF AUDIO BIT RATE
151
152
153
154
0
Ta
T1
Tb
T2
Tc
FIRST SETTING
SECOND SETTING
THIRD SETTING
TOTAL TIME Tx IN WHICH DATA IS WRITTEN TO DVD

FIG. 9

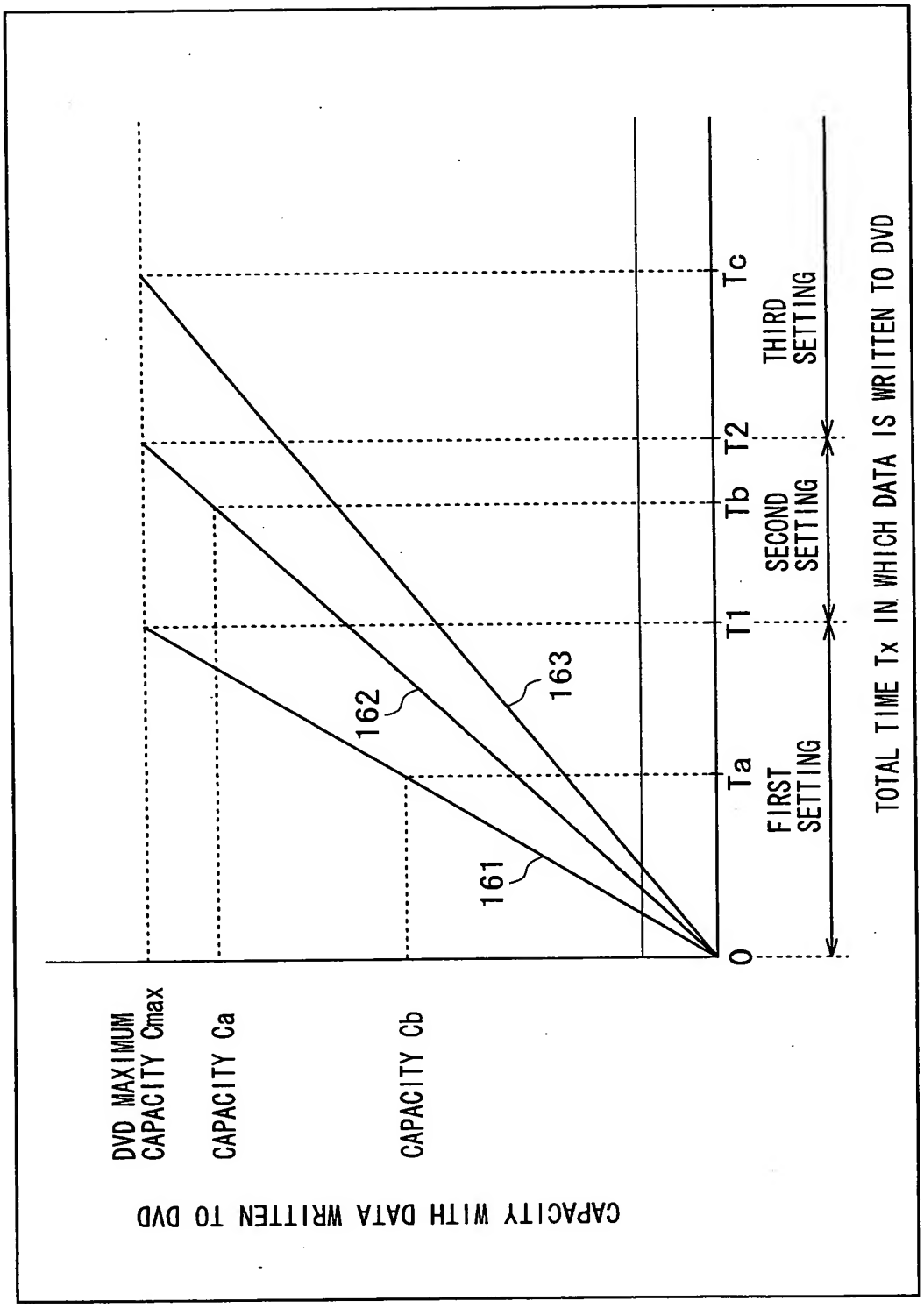
CAPACITY WITH DATA WRITTEN TO DVD
DVD MAXIMUM CAPACITY Cmax
CAPACITY Ca
CAPACITY Cb
161
162
163
0
Ta
T1
Tb
T2
Tc
FIRST SETTING
SECOND SETTING
THIRD SETTING
TOTAL TIME Tx IN WHICH DATA IS WRITTEN TO DVD

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FIG. 10

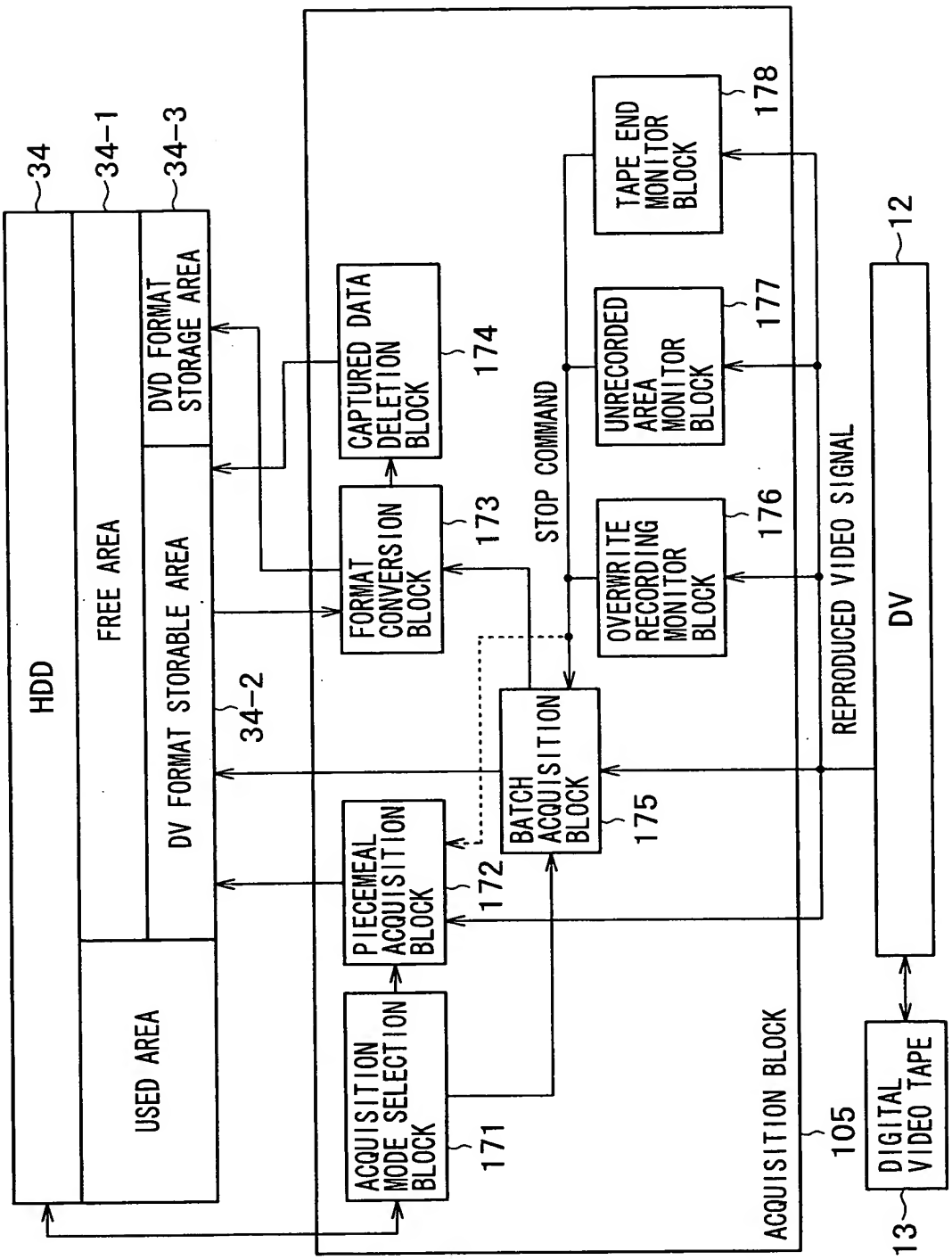

FIG. 11

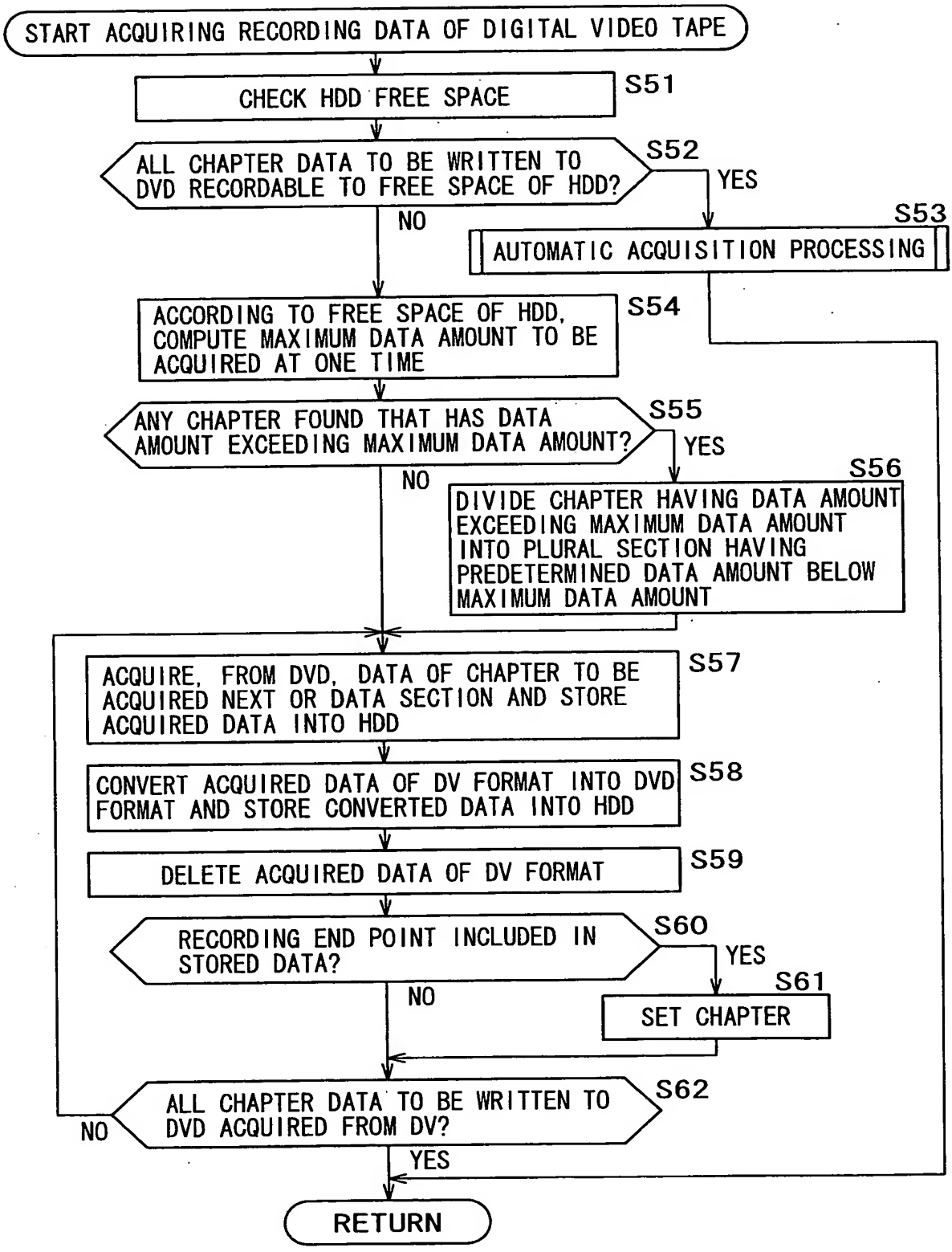
START ACQUIRING RECORDING DATA OF DIGITAL VIDEO TAPE
CHECK HDD FREE SPACE
S51
ALL CHAPTER DATA TO BE WRITTEN TO DVD RECORDABLE TO FREE SPACE OF HDD?
S52
YES
NO
S53
AUTOMATIC ACQUISITION PROCESSING
ACCORDING TO FREE SPACE OF HDD, COMPUTE MAXIMUM DATA AMOUNT TO BE ACQUIRED AT ONE TIME
S54
ANY CHAPTER FOUND THAT HAS DATA AMOUNT EXCEEDING MAXIMUM DATA AMOUNT?
S55
YES
NO
S56
DIVIDE CHAPTER HAVING DATA AMOUNT EXCEEDING MAXIMUM DATA AMOUNT INTO PLURAL SECTION HAVING PREDETERMINED DATA AMOUNT BELOW MAXIMUM DATA AMOUNT
ACQUIRE, FROM DVD, DATA OF CHAPTER TO BE ACQUIRED NEXT OR DATA SECTION AND STORE ACQUIRED DATA INTO HDD
S57
CONVERT ACQUIRED DATA OF DV FORMAT INTO DVD FORMAT AND STORE CONVERTED DATA INTO HDD
S58
DELETE ACQUIRED DATA OF DV FORMAT
S59
RECORDING END POINT INCLUDED IN STORED DATA?
S60
YES
NO
S61
SET CHAPTER
ALL CHAPTER DATA TO BE WRITTEN TO DVD ACQUIRED FROM DV?
S62
NO
YES
RETURN

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FIG. 12

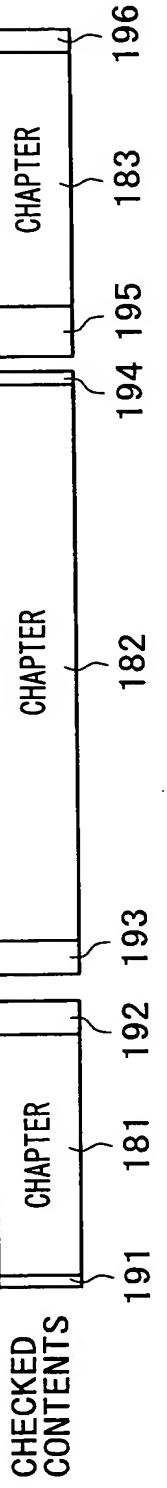

FIG. 13

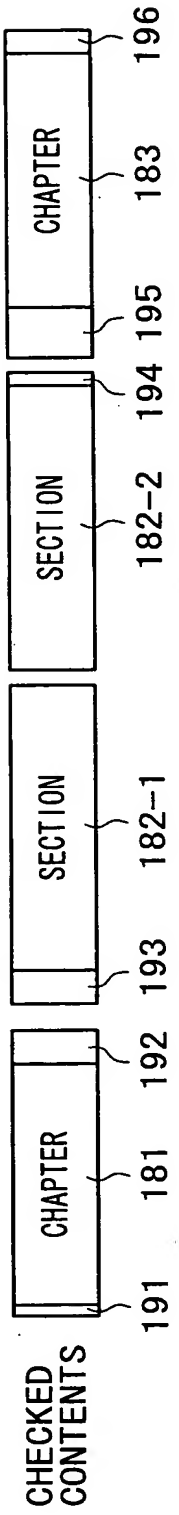
CHECKED CONTENTS
CHAPTER
SECTION
SECTION
CHAPTER
191
181
192
193
182-1
194
182-2
195
183
196

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FIG. 14

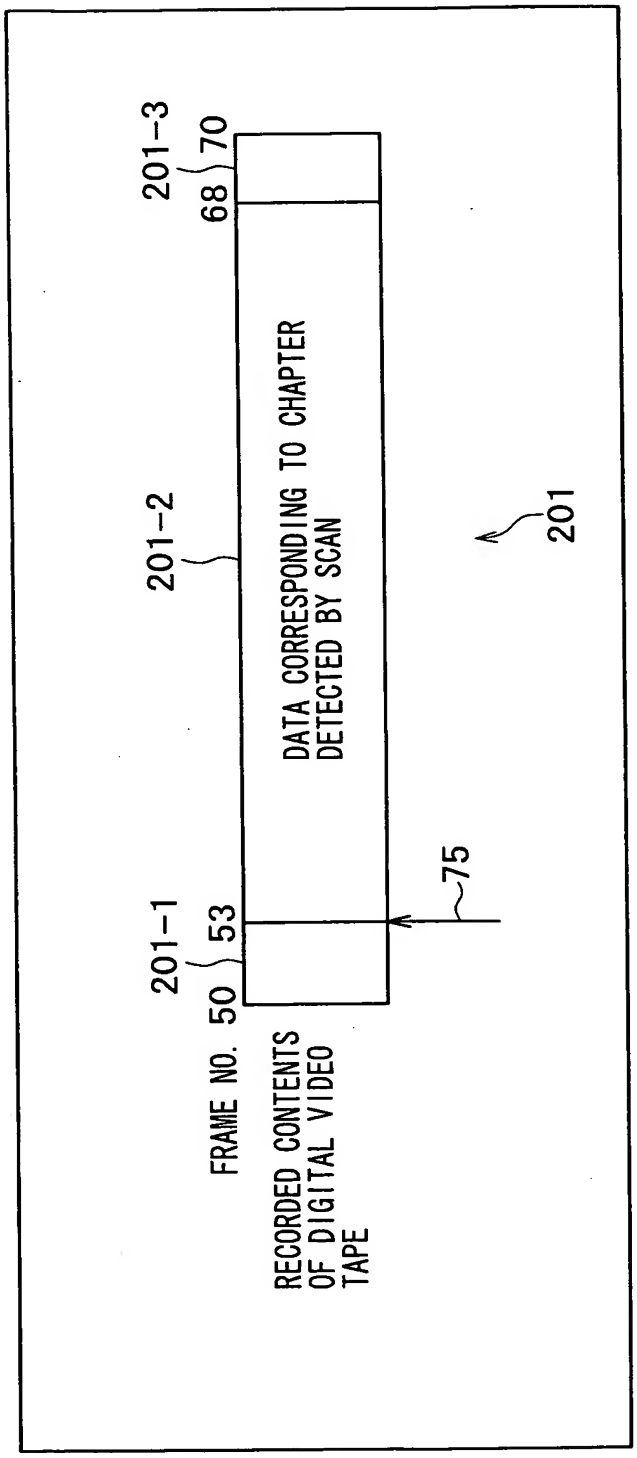

FIG. 15

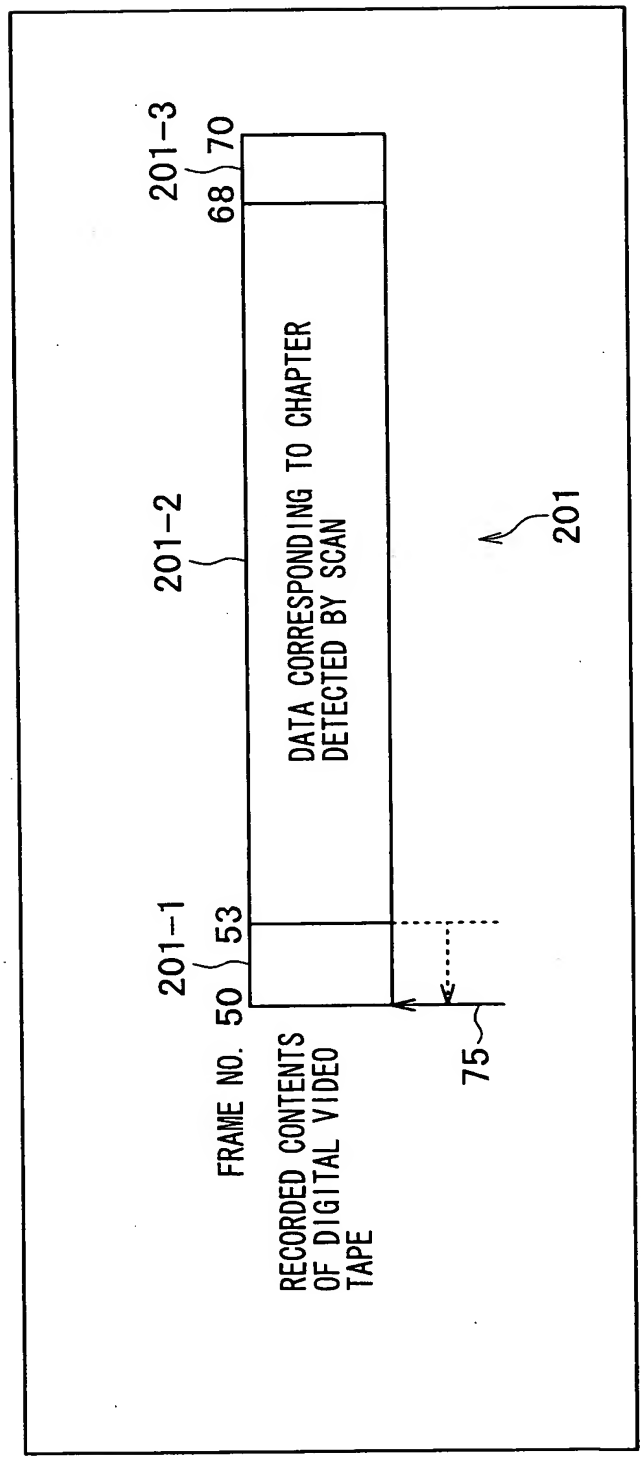
201
201-1
201-2
201-3
53
50
68
70
75
FRAME NO.
RECORDED CONTENTS OF DIGITAL VIDEO TAPE
DATA CORRESPONDING TO CHAPTER DETECTED BY SCAN

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FIG. 16

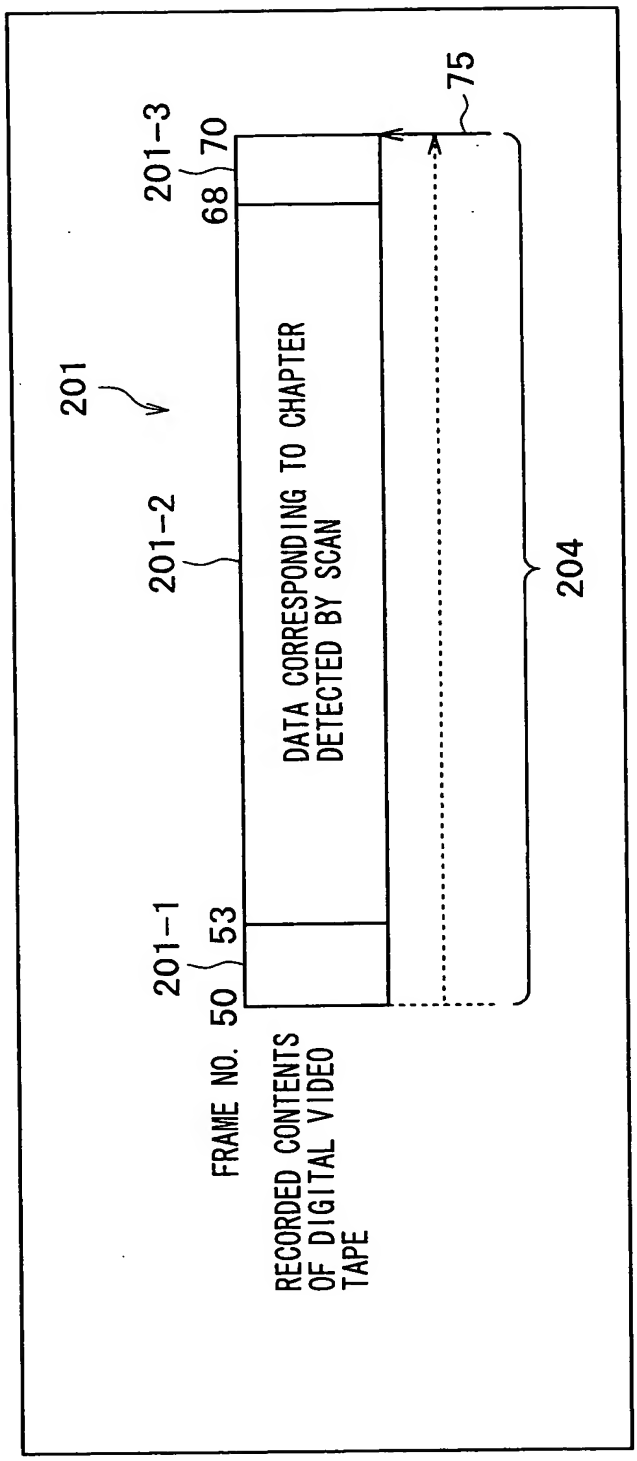

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FIG. 17

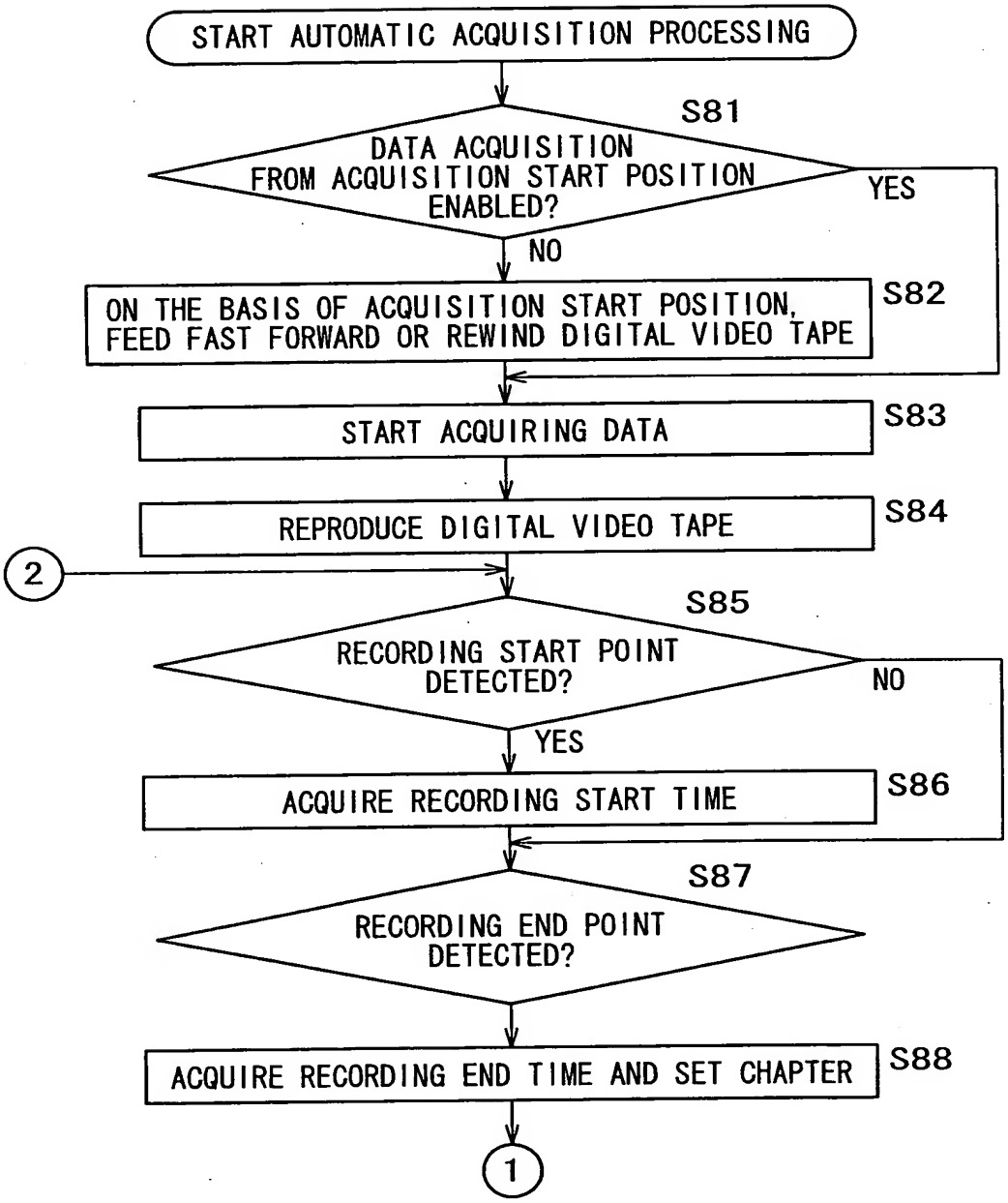

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FIG. 18

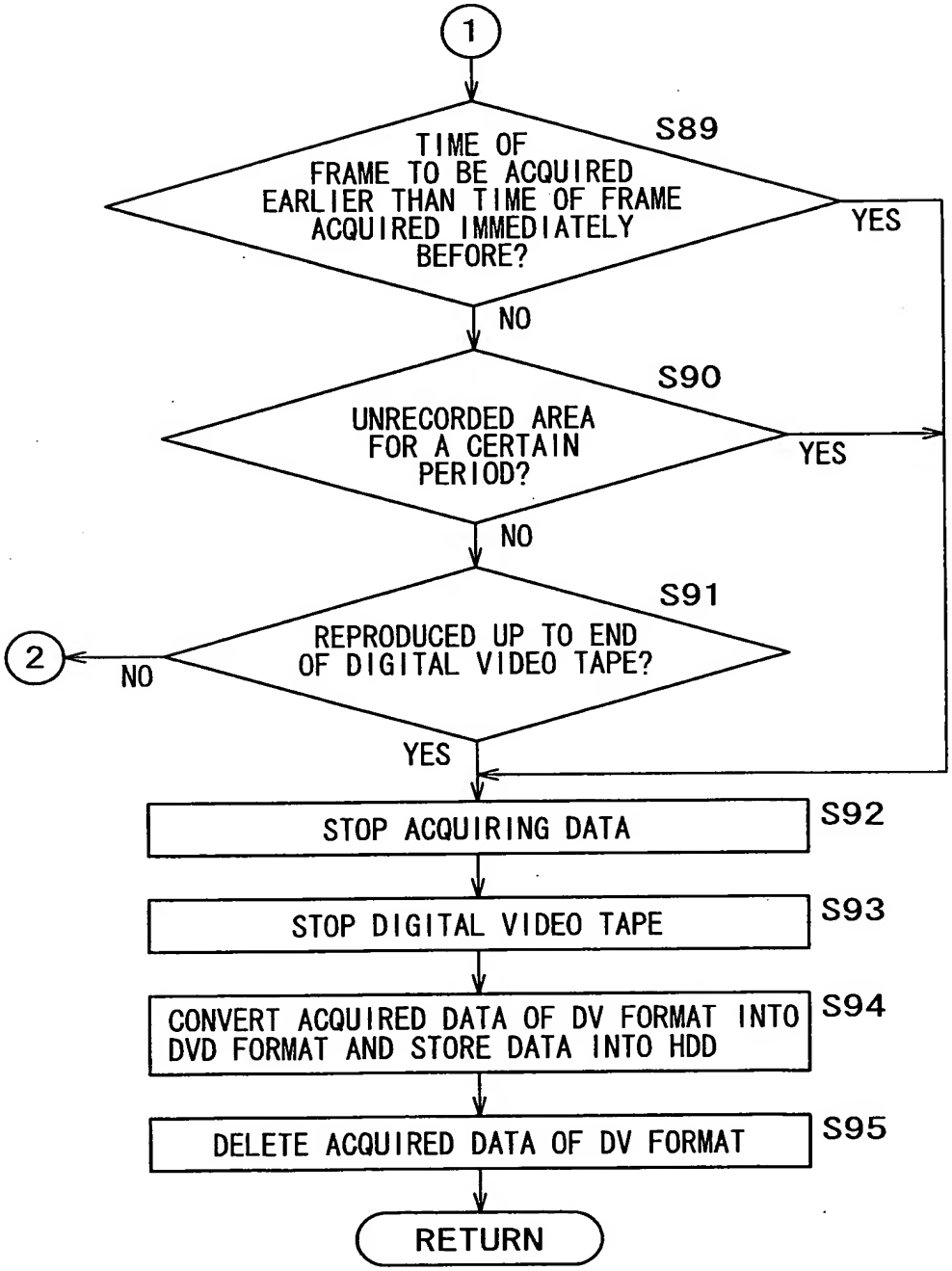

FIG. 19

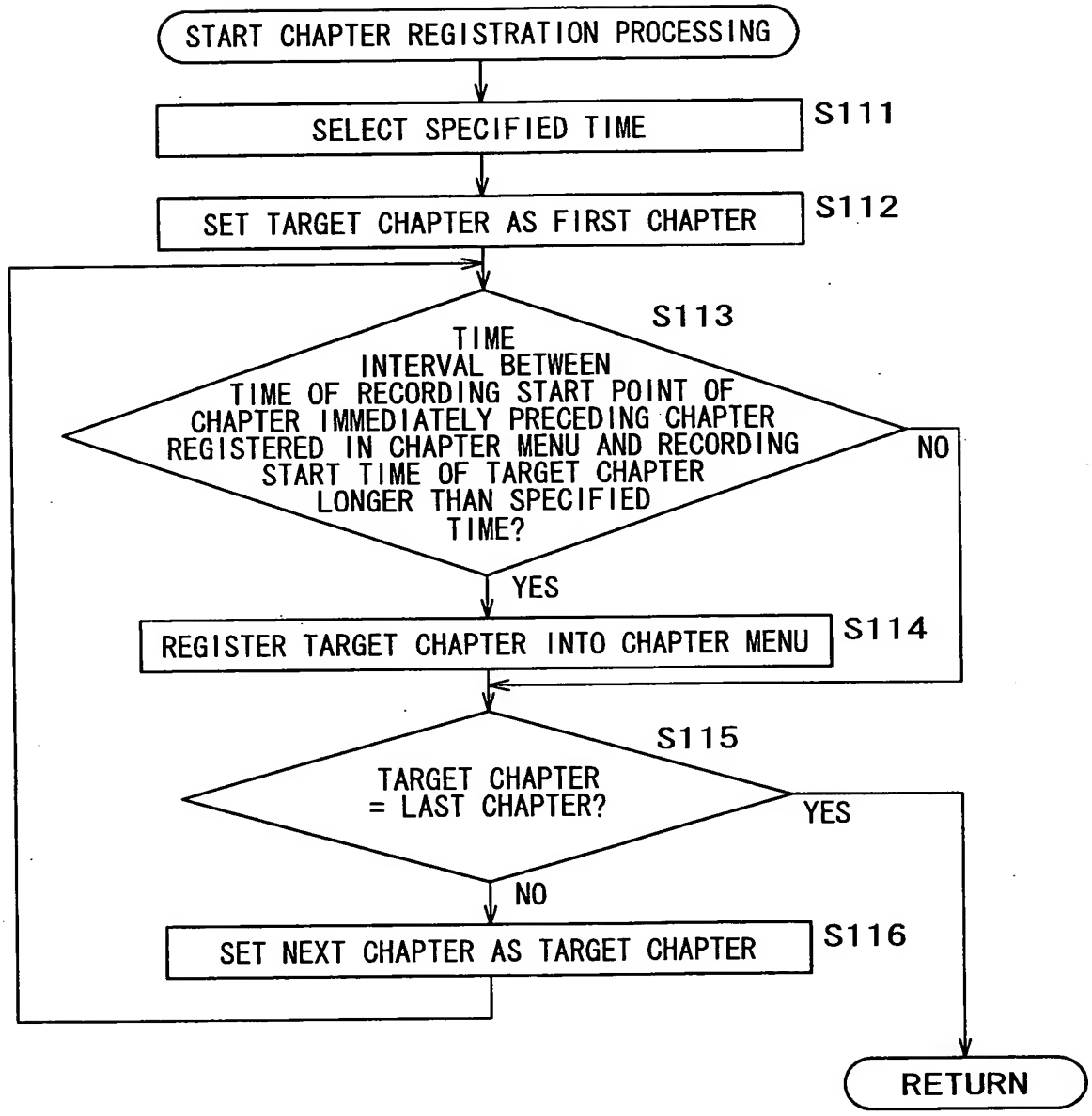
START CHAPTER REGISTRATION PROCESSING
SELECT SPECIFIED TIME
S111
SET TARGET CHAPTER AS FIRST CHAPTER
S112
S113
TIME INTERVAL BETWEEN TIME OF RECORDING START POINT OF CHAPTER IMMEDIATELY PRECEDING CHAPTER REGISTERED IN CHAPTER MENU AND RECORDING START TIME OF TARGET CHAPTER LONGER THAN SPECIFIED TIME?
NO
YES
REGISTER TARGET CHAPTER INTO CHAPTER MENU
S114
S115
TARGET CHAPTER = LAST CHAPTER?
YES
NO
SET NEXT CHAPTER AS TARGET CHAPTER
S116
RETURN

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FIG. 20

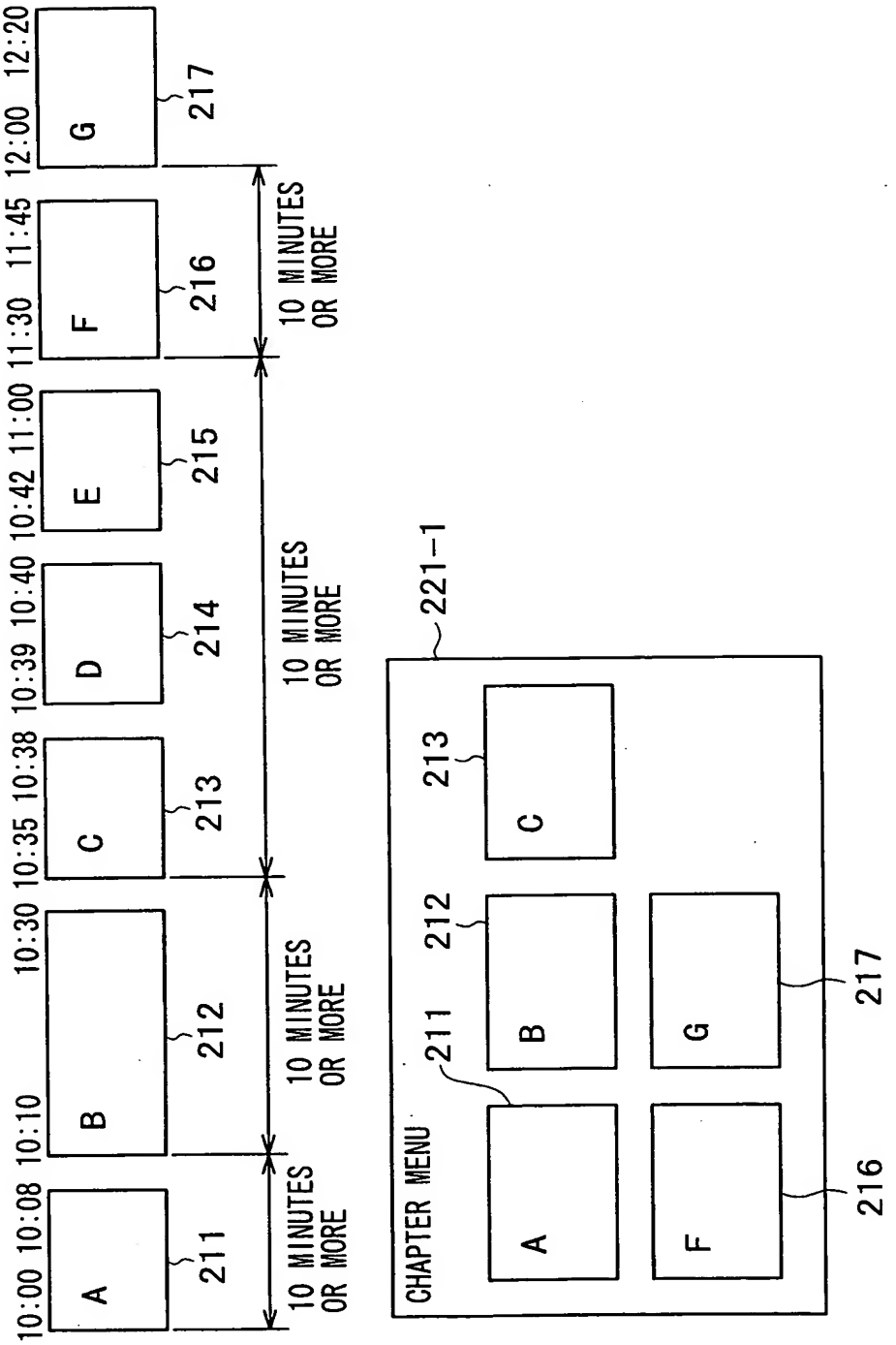

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FIG. 21

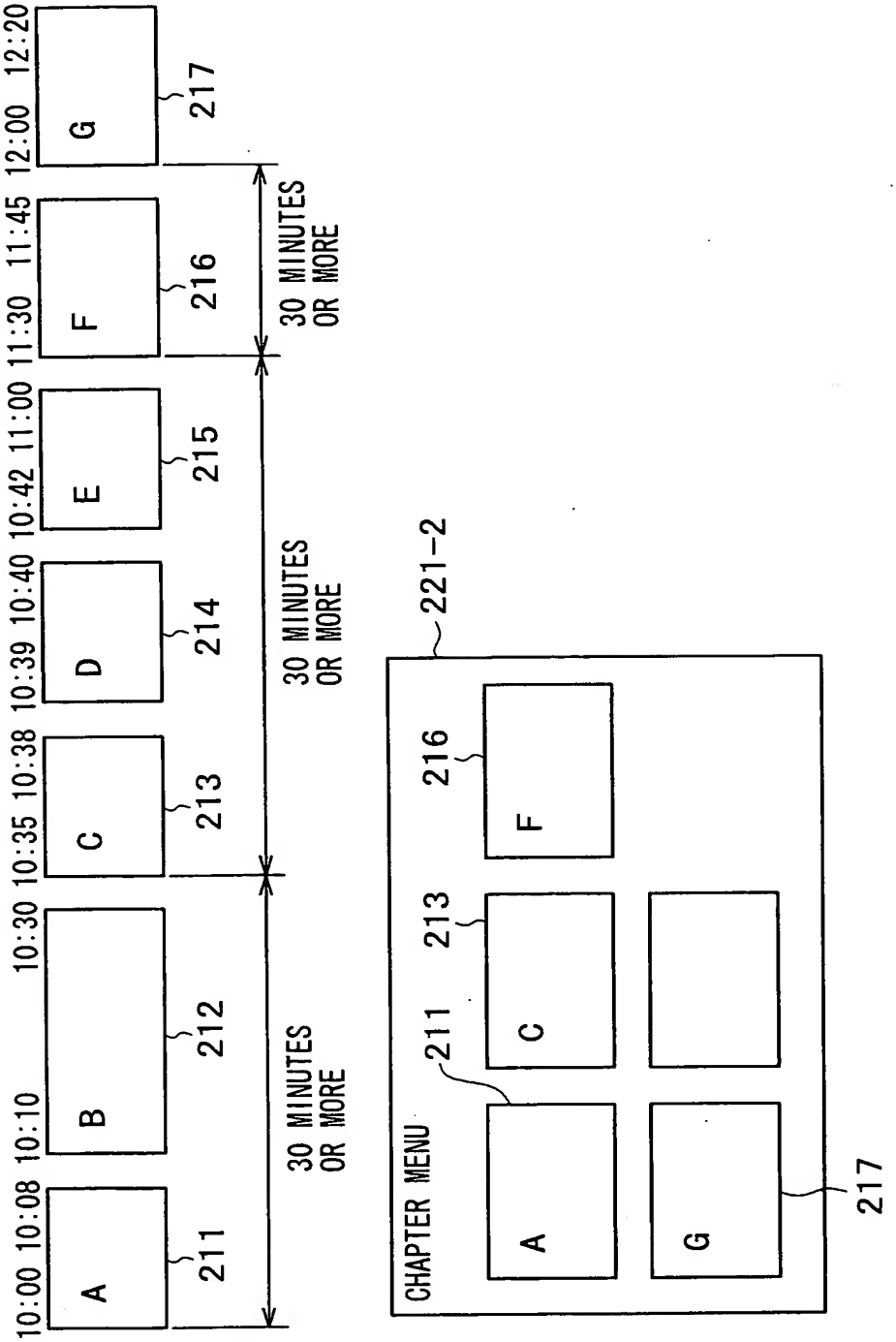

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FIG. 22

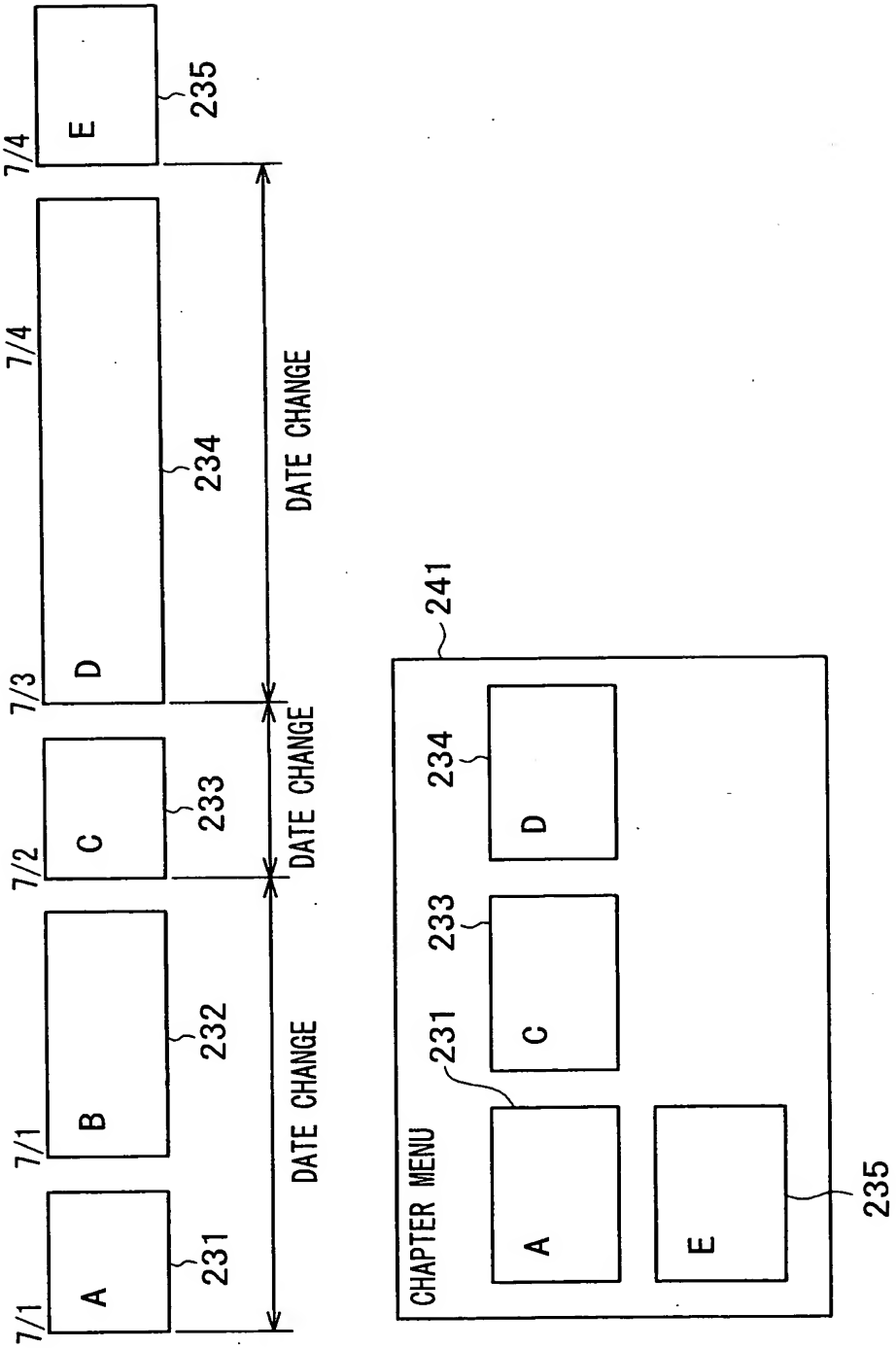

FIG. 23

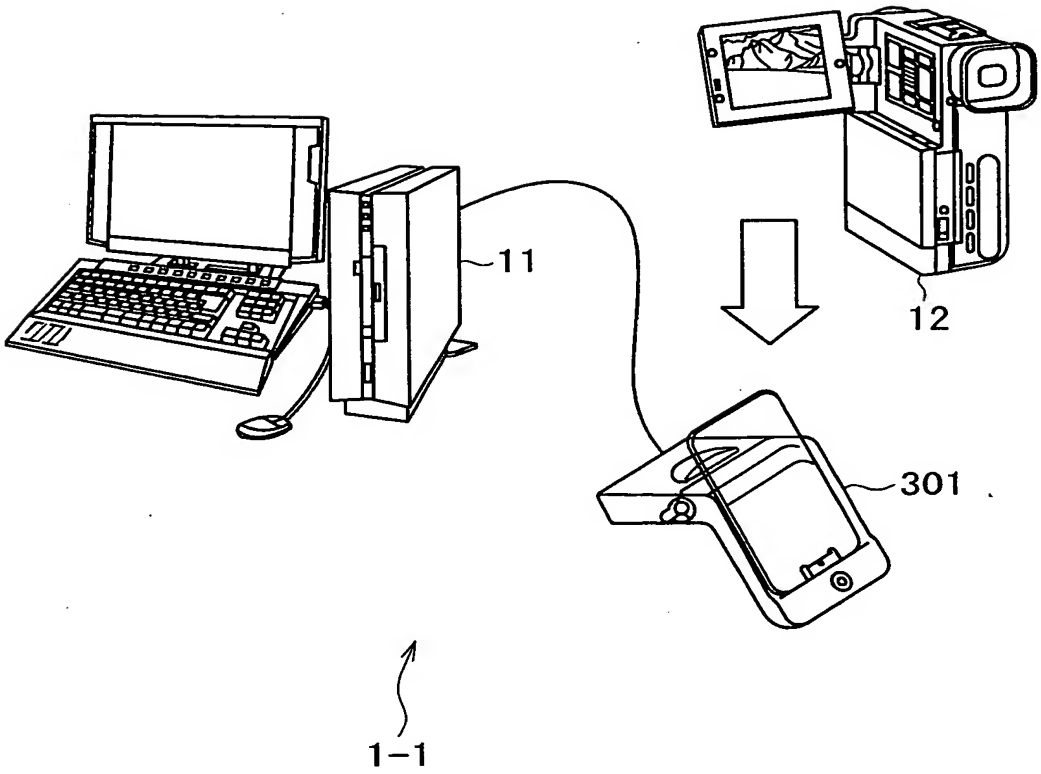

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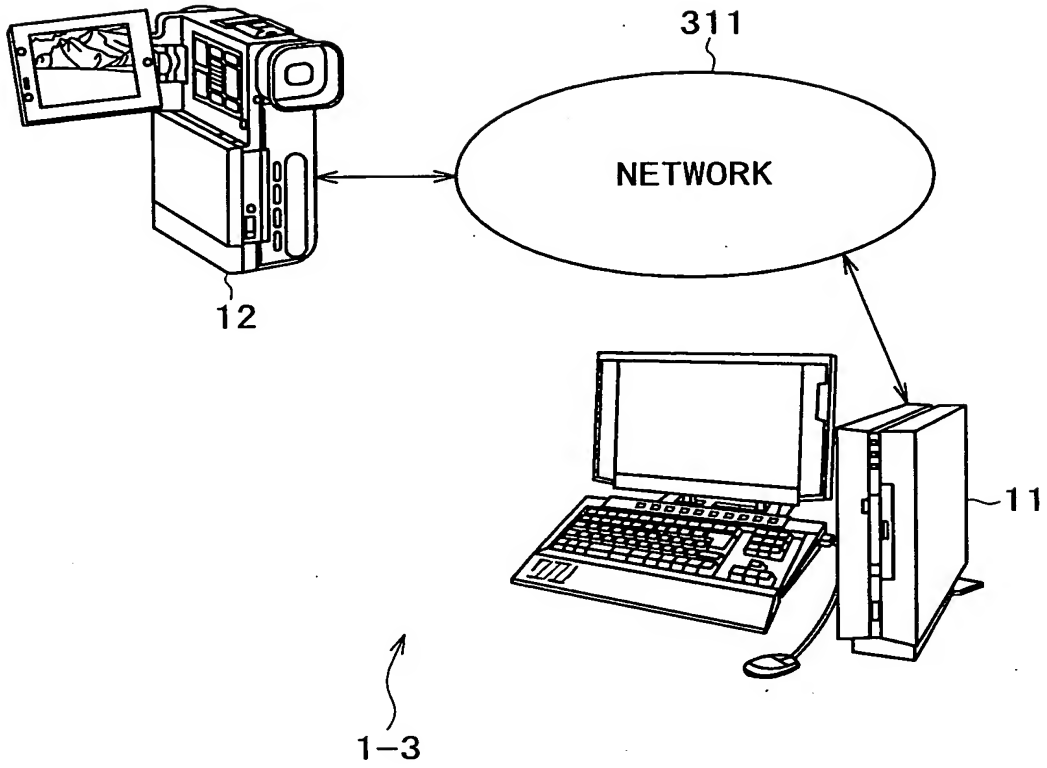
FIG. 24



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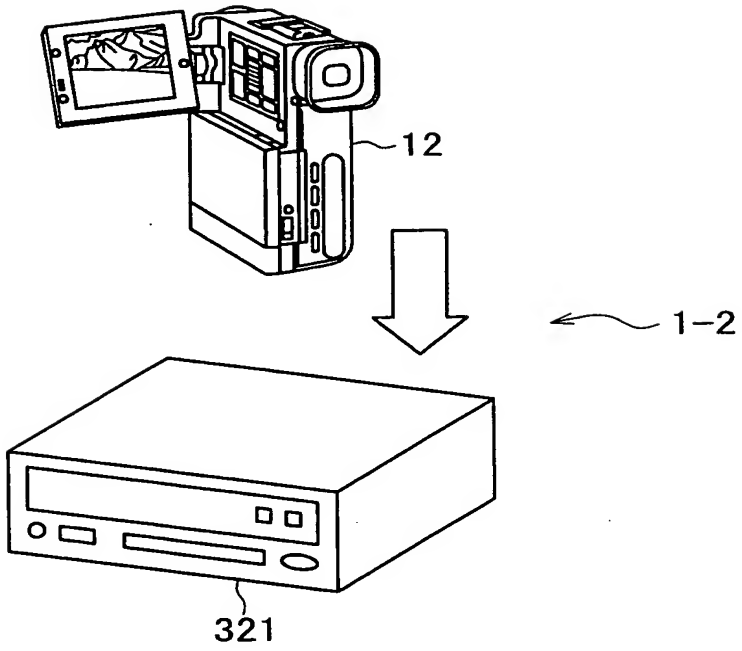
FIG. 25